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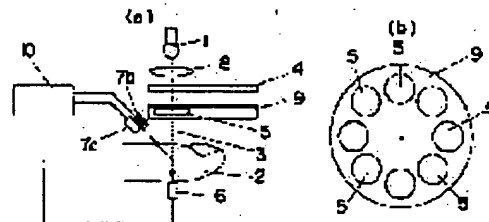
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## (54) CONCENTRATION MEASURING APPARATUS FOR HUMOR COMPONENT

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To achieve a non-invasive measurement of the concentration of humor components free from the effect of personal difference.

**SOLUTION:** This humor component concentration measuring apparatus performs a non-invasive measurement of the concentration of humor components in vivo. The apparatus comprises a light source 1 to output near infrared rays for irradiating a part 2 to be measured, light receiving means 6, 7a and 7b to separately detect light transmitted through the part 2 to be measured and light reflected on the part to be measured and an arithmetic processing means 10 to measure the concentration of a desired humor component by an arithmetic processing based on an absorbance signal of the transmission light and the absorbance signal of the reflected light obtained by the light receiving means. This enables measurement by the transmission light on one hand and by the reflected light on the other and the results of the measurement of the absorbance by the transmission light and those of the measurement of the absorbance by the reflected light are generalized to measure the concentration of the humor components.



## LEGAL STATUS

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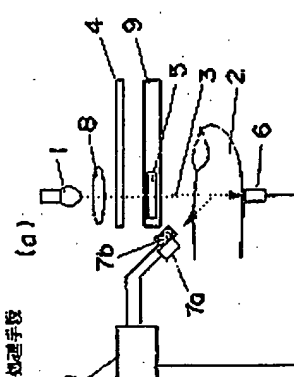
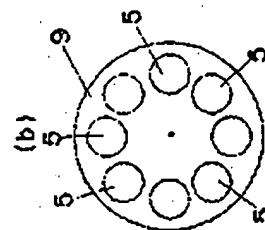
(74) 代理人 弁理士 石田 長七 (外2名)

(54) 【発明の名称】 体液成分濃度測定装置

(57) 【要約】

【課題】 個体差の影響を受けることなく体液成分濃度測定を非侵襲で行う。

【解決手段】 生体中の体液成分濃度を非侵襲的に計測する体液成分濃度測定装置である。被測定部位2 照射用の近赤外光を出力する光源1と、被測定部2を透過した光と被測定部で反射した光とを夫々検出する受光手段6、7a、7bと、受光手段で得られた透過光の吸光度信号と反射光の吸光度信号とからの演算処理で目的体液成分濃度を検量する演算処理手段10とからなる。透過光による測定と反射光による測定とを行うことができ、透過光による吸光度の測定結果と反射光による吸光度の測定結果とを総合して体液成分濃度の検量を行うことができる。



光源  
照射手段  
受光手段  
演算処理手段